

1600 Bellwood Road, Richmond, VA 23237 U.S.A.

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510(k) Summary of Safety and Effectiveness

The Wako IgA II – HA test is an in vitro assay for the quantitative determination of immunoglobulin A in serum.

Summary:

Approximately 10% of Serum immunoglobulin is IgA. In its monometric form, its structure is similar to that of IgG, but 10-15% of IgA in serum is polymetric. Another form of IgA is called secretory IgA. It is found in tears, sweat, saliva, milk, colostrum, and gastrointestinal and bronchial secretions.

The quantification of immunoglobulins in serum is important for the diagnosis, monitoring and prognosis of chronic liver diseases, infectious diseases, lymphocytosis, multiple myeloma, primary and secondary immune failure, etc. The conventional test, single radial immunodiffusion (SRID), has been widely used. In recent years, there have been many reports on the use of turbidity or light scattering for the measurement of antigen-antibody complexes formed in solution. Advantages over conventional methods include increased sensitivity, better precision, and shortened assay time. The Wako IgA II-HA test is a highly specific reagent based on turbidimetric immunoassay. 1,2

Principle:

When a sample is mixed with the Buffer solution and Anti-IgA, IgA in the sample combines specifically with anti-human IgA antibody in the Anti-IgA to yield an insoluble aggregate that causes increased turbidity. The degree of turbidity can be measured optically and is proportional to the amount of IgA in the sample.

The safety and effectiveness of the Wako IgA II-HA is demonstrated by its substantial equivalency to Wako IgA HA-Direct product. Both test systems are used to measure IgA in serum. In comparison studies against the predicate assay, a correlation coefficient of 0.994 and a regression equation of $y = 1.227 \times -63.64$ was obtained. Precision studies indicate acceptable values can be obtained on a day to day basis. The minimum detectable level of this method is 15 mg/dL.

References:

- 1. Burtis, C.A. and Ashwood, E.R., Ed.: Tietz Textbook of Clinical Chemistry, 2nd Ed., Saunders, Philadelphia, 1994.
- 2. Tsubaki, K. et al., Japanese J. Clin. Chem., 14,185-191 (1985).

3. DG Klinische Chemie Mitteilungen 26 (1995) Heft 5.

September 30, 1999 Wako Diagnostics

Wako Chemicals USA, Inc.

1600 Bellwood Road Richmond, VA 23237

DEPARTMENT OF HEALTH & HUMAN SERVICES



JAN 1 4 2000

Food and Drug Administration 2098 Gaither Road Rockville MD 20850

Ms. Tonya Mallory Senior Manager Wako Chemicals USA, Inc. 1600 Bellwood Road Richmond, Virginia 23237

Re: K993927

Trade Name: Wako IgA II HA Immunoglobulin Calibrator Set

Regulatory Class: II Product Code: CZP

Dated: September 30, 1999 Received: November 18, 1999

Dear Ms. Mallory:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the Current Good Manufacturing Practice requirements, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic QS inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

Under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88), this device may require a CLIA complexity categorization. To determine if it does, you should contact the Centers for Disease Control and Prevention (CDC) at (770)488-7655.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4588. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll free number (800) 638-2041 or at (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsmamain.html"

Sincerely yours,

Steven I. Gutman, M.D., M.B.A.

Director

Division of Clinical Laboratory Devices

Steven Butman

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

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510(k) Number (if known): <u>1993937</u>

Device Name: <u>Wako IgA II HA</u>

Indications For Use:

Measurement of IgA immunoglobulin aids in the diagnosis of abnormal protein metabolism and the body's lack of ability to resist infectious agents.

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of	CDRH, Office of Device Evaluation (ODE)
	Situ Mafin
	(Division Sign-Off)
	Division of Clinical Laboratory Devices K 999

Prescription Use (Per 21 CFR 801.109)

OR

Over-The-Counter Use____

(Optional Format 1-2-96)